



***Implications of Logistics Transformation on
Logistics Architecture, The Policy View***

26 October 2000

Logistics Architecture Objective

- **Design and guide the implementation of a logistics system that inherently meets the operational requirements of JV 2010**
 - **Required performance levels**
 - **Functional processes**
 - **Capital infrastructure**
 - **Organization/force structure**
 - **Industrial base**
 - **Information systems**
- **Focus on joint warfighter needs and DoD national level strategy**

2010 Logistics Architecture Background

- **Two competing contractors awarded Phase 1 contracts in March 00 to assemble requirements and prepare preliminary design of a logistics operational architecture for 2010**
 - **SAIC**
 - **CSC**
- **Contractor efforts initially focused on bounding quantitative requirements and concepts**
 - **Full spectrum operations**
 - **Service operational concepts**
 - **CINC/Joint Staff proposed performance**
- **Phase 1 contracts completed 30 June**
 - **National considerations**
 - **Initial findings**
 - **Preliminary design**
- **Concurrently initiating Phase 2, Detailed Design with a single contractor, SAIC**

Logistics Architecture Approach

- **Develop quantitative performance requirements building from the mobility requirements study**
 - **2 Major Theater Wars**
 - **Extend to include full spectrum of military operations**
- **Incorporate Service operational concepts**
 - **Expeditionary Air Force concepts**
 - **200 miles inland operations**
 - **Deploy a brigade in 96 hours; 5 divisions in 30 days**
- **Develop preliminary design (characteristics, process, organizational responsibilities)**

Phase 1

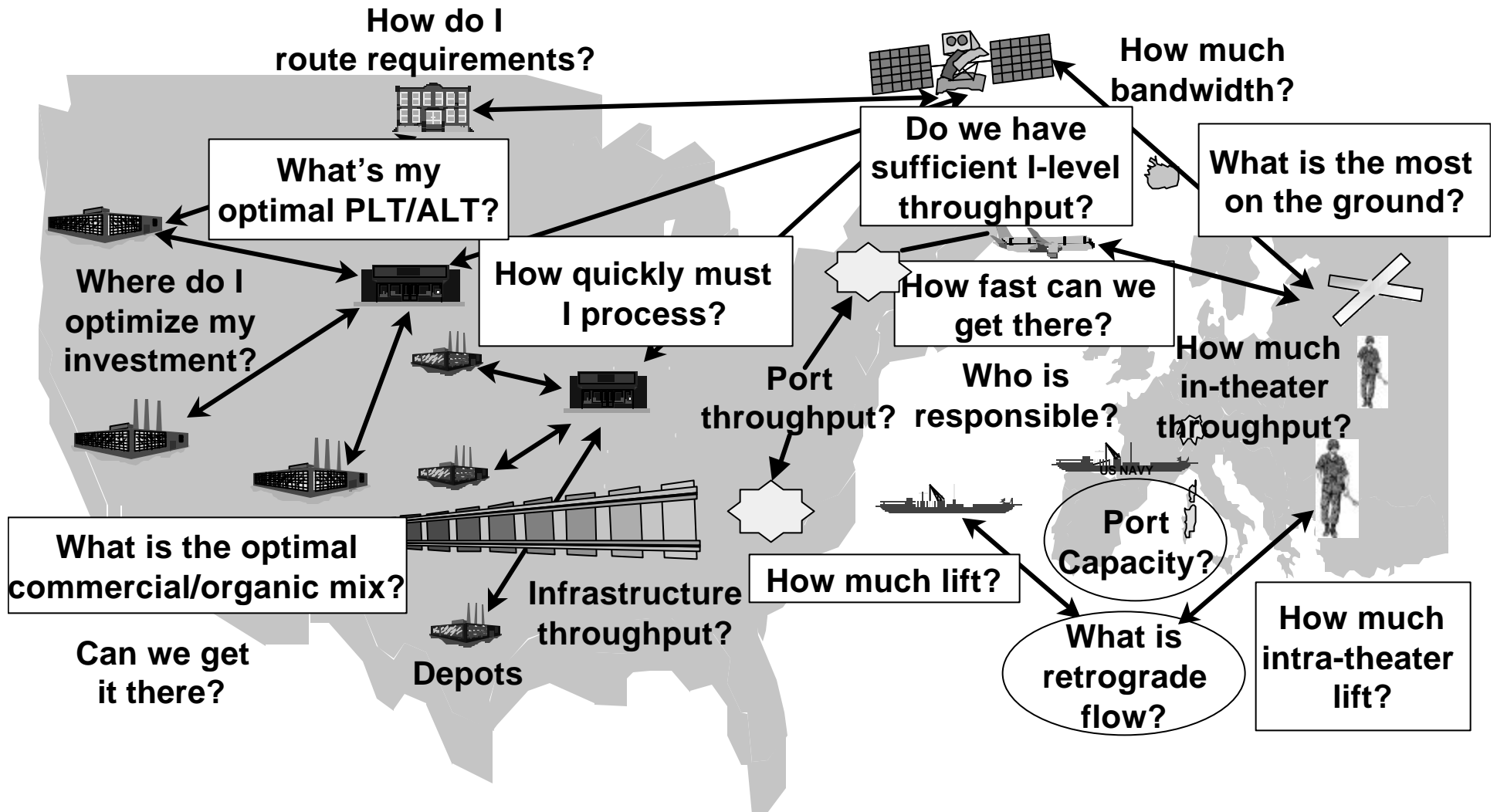
Phase 2

- **Conduct engineering trade-offs to optimize performance and cost — highlight trade-space for Logistics Reform Senior Steering Group (LRSSG)**
- **Simulate new system to demonstrate trade-offs**
- **Complete DoD-level design (structure, processes, organization, and IT)**

Phase 3

- **Guide Component implementation of compliant architectures**

Logistics 2010 Architecture Considerations



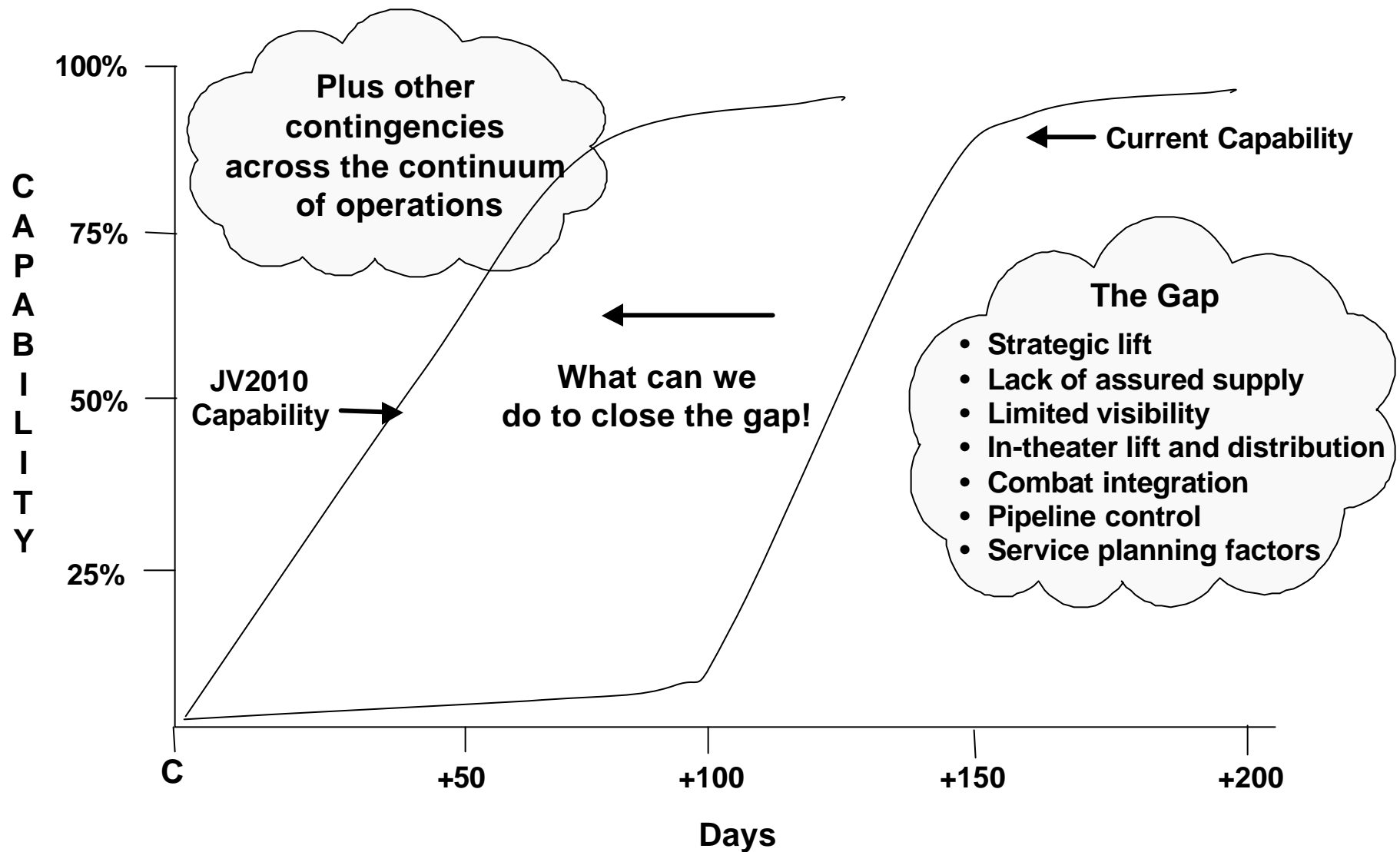
Can we execute the national military strategy?

Future Deployment Considerations (Initial Analyses)

- **Built from MRS-05 (Two MTW scenarios)**
- **Projected lift capacity based on FY02 POM**
- **Projected 2010 future force based on Service operational concepts (Army, Navy, Air Force, Marine Corps)**
- **Replaced 6 heavy brigades with medium (interim) capability**
- **Reduced total lift requirements by 120,000 short tons**
- **Desire for rapid deployment places dramatic stress on lift capability (air and sea) in first 30 days; particularly acute in first 10 days**

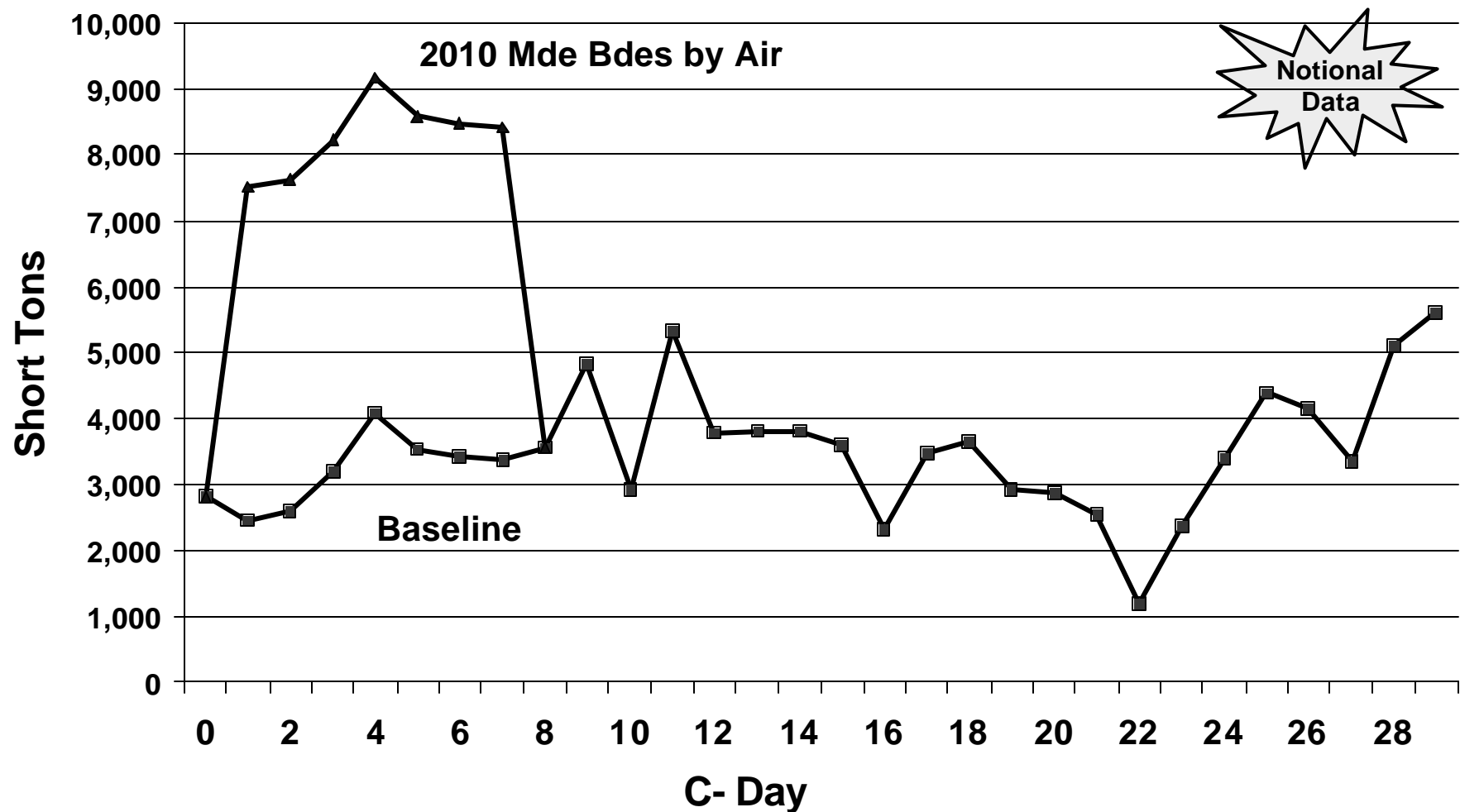
Future Deployment Considerations

(2 Major Theater Wars)

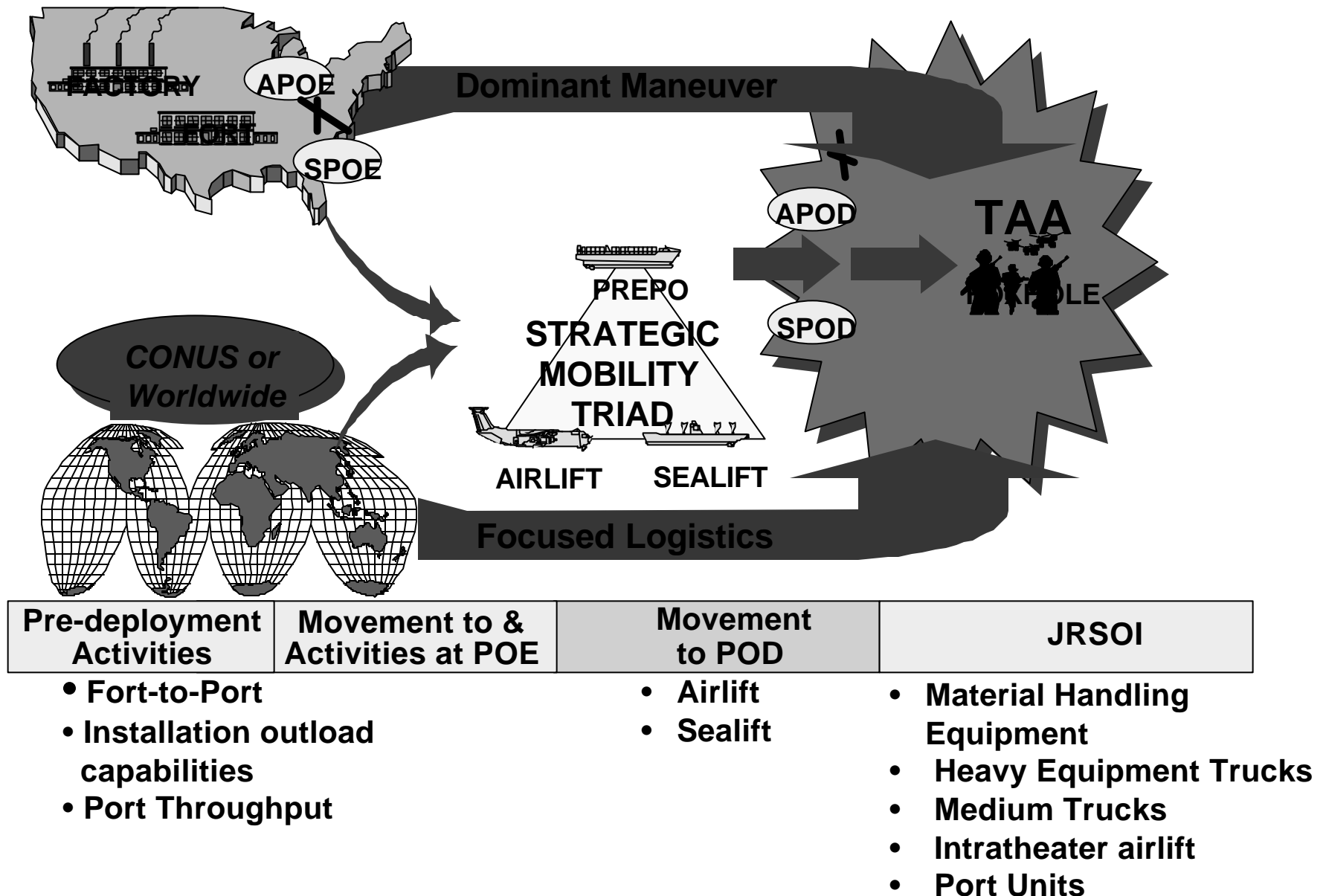


Example: Airlift for Rapid Deployment

(3 Mde Bdes by Air over 7 days)



2010 Deployment Challenges



“Peacetime” Readiness

- **Current *programmed* readiness levels support today’s Two MTW strategy (FY02 POM)**
- **Realizing some challenges in achieving programmed goals**
 - **Diversion of resources**
 - **Performance**
- **In 2010 rapid response environment, we will have less time to bring equipment to deployable capability**
- **Specific readiness implication will be worked in conjunction with Logistics Strategic Plan implementation**

2010 Logistics Architecture Considerations

- **Support full spectrum of operations**
 - **2 Major Theater Wars**
 - **Contingency operations**
 - **Humanitarian/emergency relief**
 - **Peacekeeping**
- **Achieve and maintain peacetime readiness levels consistent with rapid reaction and force projection**
- **Enable Military Services operational concepts**
 - **Expeditionary Air Force concepts**
 - **1 brigade deployed in 96 hours / 5 divisions engaged in 30 days**
 - **Autonomous operations from the sea, 200 miles inland**
- **Meet CINC priorities and appropriate Joint Staff Time Definite Delivery standards**

Can we design a logistics system that meets those considerations?

Proposed Design Characteristics (Logistics 2010)*

Performance

- **Logistics products and services tailored to the mutual performance expectations of operational customers and logistics providers**
- **Ability to maintain performance in adverse conditions**
- **Flexibility to meet the performance expectations at all levels of conflict**
- **Highly reliable and consistent logistics performance that minimizes need for human interface**

Process

- **Agility to respond to dynamic operational requirements**
- **National ownership of materiel and services to the point of consumption; resource responsibility remains with the operational customer**
- **Logistics and financial transactions transparent at the operational level**
- **Logistics chains managed or synchronized by primary service provider to the operational customer**
- **Optimize distribution across the logistics chain to minimize handling and redistribution in forward areas**

*** Consensus of Services and TRANSCOM**

Proposed Design Characteristics (Logistics 2010)

(Continued)

Process (Continued)

- **Logistics processes performed in a cost-effective manner**
- **Outcome performance measured throughout the process**
- **Joint, interagency, and coalition interoperable capability**
- **Employ health monitoring technology (prognostics, diagnostics) to maximize supportability and readiness of major systems (platforms, armaments, combat support)**

Infrastructure

- **Capability and capacity sized to support national security strategy**
- **Mix of public, private, host-nation, and coalition resources**

Proposed Design Characteristics (Logistics 2010)

(Continued)

Organization

- **Military Services have primary responsibility for logistics support**
- **Defense agencies are the service providers for assigned commodities or services**
- **TRANSCOM is the single manager for DoD transportation other than Service unique or theater transportation**
- **Services, Defense Agencies, and TRANSCOM efforts are synchronized to meet CINC defined prioritized requirements and materiel flows.**

Information systems

- **Timely access to accurate, actionable information across logistics chains**
- **Assured end-to-end communications to support logistics operations**
- **Information flows and processing occurs in a technology advantaged and protected environment**
- **Decision support tools in an integrated data environment deployed to manage logistics processes and materiel flows**
- **Interoperable capability achieved through maximum use of commercial and international standards**

Proposed Design Characteristics (Logistics 2010)

(Continued)

People

- **Logistics professional differentiated by attainment of broad based competency standards**
- **Continuing professional development enabled by advanced learning techniques and knowledge management systems**
- **Personnel performance rating system tied to output and customer satisfaction**
- **Civilian personnel recruiting and retention practices move toward commercial practices**

Building the Future*

- **Coordinate Architecture characteristics with Services, DLA, TRANSCOM (ongoing)**
- **Harmonize CINC/Service deployment expectations with JFCOM and TRANSCOM**
- **Refine Service planning factors to reflect emerging operational concepts**
- **Coordinate with DCSLOGs to evolve logistics processes and doctrine (consistent with Service visions and CINC requirements)**

*** Areas to be evaluated by responsible organizations (Services, DLA, TRANSCOM, JS, OSD)**

Objective Architecture Schedule

